#3512 Store at -20C

Connexin 43 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-F, IF-IC	Reactivity: H M R Mk Z	Sensitivity: Endogenous	MW (kDa): 39, 41, 43, 44	Source: Rabbit	UniProt ID: #P17302	Entrez-Gene Id 2697	
Product Usage	Ą	pplication		D	Dilution		
Information	W	Western Blotting				1:1000	
	Im	Immunohistochemistry (Paraffin)				1:100	
	Im	Immunofluorescence (Frozen)				1:50 - 1:100	
	Im	munofluorescence	(Immunocytochemist	1:	1:50 - 1:100		
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50 20°C. Do not aliquot the antibody.						glycerol. Store at –	
Specificity / Sensitivity		Connexin 43 Antibody detects endogenous levels of total connexin 43. This antibody does not cross-react with other connexins.					
Species predicted react based on 10 sequence homolo	0%	g, Pig					
Source / Purificati		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human connexin 43. Antibodies are purified by protein A and peptide affinity chromatography.					
Background Connexin 43 (Cx43) is a member of the large family of gap junction proteins. Connexins asset hexamer and are transported to the plasma membrane to create a hemichannel that can asso hemichannels on nearby cells to create cell-to-cell channels. Clusters of these channels asset gap junctions. Gap junction communication is important in development and regulation of cell Phosphorylation of Cx43 is important in regulating assembly and function of gap junctions (1,2 Cx43 is phosphorylated by protein kinase C (PKC) after activation by phorbol esters, which do to-cell communication (3). Src can interact with and phosphorylate Cx43 to alter gap junction communication (4,5).					an associate with els assemble to make n of cell growth. ons (1,2). Ser368 of which decreases cell-		
Background Refer	2. M 3. L 4. C	 Musil, L.S. et al. (1990) J Cell Biol 111, 2077-88. Musil, L.S. and Goodenough, D.A. (1991) J Cell Biol 115, 1357-74. Lampe, P.D. et al. (2000) J Cell Biol 149, 1503-12. Giepmans, B.N. et al. (2001) J Biol Chem 276, 8544-9. Lin, R. et al. (2001) J Cell Biol 154, 815-27. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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